 AIR RESOURCES BOARD	DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY	EXECUTIVE ORDER U-R-004-0108 New Off-Road Compression-Ignition Engines
---	---	---

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2002	2JDXL08.1007	8.1	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Smoke Puff Limiter, Electronic Control Module			Loader, Tractor, Generator Set	

The engine models and codes are attached.

The following are the exhaust certification standards (STD, and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr); and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

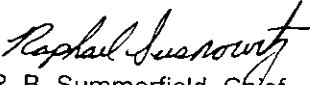
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ KW < 225	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	20	15	50
		CERT	0.5	8.0	--	1.3	0.21	12	4	18

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 27th day of December 2001.


R. B. Summerfield, Chief
Mobile Source Operations Division

Engine Model Stry Form

U-R-4-108

Attachment

Manufacturer: Deere Power Systems Group of Deere and
 Engine category: Nonroad CI
 EPA Engine Family: 2JDXL08.1007
 Mr Family Name: 450HA
 Process Code: New Submission

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
6081HF001A	6081H	300.39@2200	139.00@2200	103.62@2200	1024.34@1200	191@1200	77.16@1200	TC CAC EM
6081HDW05	6081H	199.81@2200	102.00@2200	74.96@2200	786.14@1400	144.5@1400	66.14@1400	TC CAC EM
6081HDW06	6081H	231.99@2200	116.50@2200	85.98@2200	789.09@1400	146@1400	68.34@1400	TC CAC EM
6081HF001C	6081H	300.39@2200	139.00@2200	103.62@2200	958.70@1400	172@1400	81.57@1400	TC CAC EM
6081HT001	6081H	249.43@2000	136.50@2000	90.39@2000	949.85@1200	181@1200	70.55@1200	TC CAC EM
6081HZ004	6081H	300.39@2100	145.00@2100	101.41@2100	960.18@1500	180@1500	88.18@1500	TC CAC EM
6081HDW01	6081H	217.25@2190	113.30@2190	83.77@2190	884.96@900	180.1@900	55.11@900	TC CAC EM
6081HRW05	6081H	265.52@2100	130.00@2100	90.39@2100	899.71@1200	181@1200	72.75@1200	TC CAC EM
6081HRW17	6081H	280.27@2200	134.00@2200	99.21@2200	932.15@1400	173.2@1400	81.57@1400	TC CAC EM
6081HRW18	6081H	280.27@2200	134.00@2200	99.21@2200	932.15@1400	173.2@1400	81.57@1400	TC CAC EM
6081HT004A	6081H	261.50@2400	120.30@2400	97.00@2400	811.21@1400	151.5@1400	70.55@1400	TC CAC EM
6081HT004B	6081H	286.98@2400	131.10@2400	105.82@2400	811.21@1400	151.5@1400	70.55@1400	TC CAC EM
6081HDW10	6081H	217.25@2190	113.30@2190	83.77@2190	884.96@900	180.1@900	55.11@900	TC CAC EM

ECM, DDT